

MARINE CORPS WARFIGHTING LABORATORY

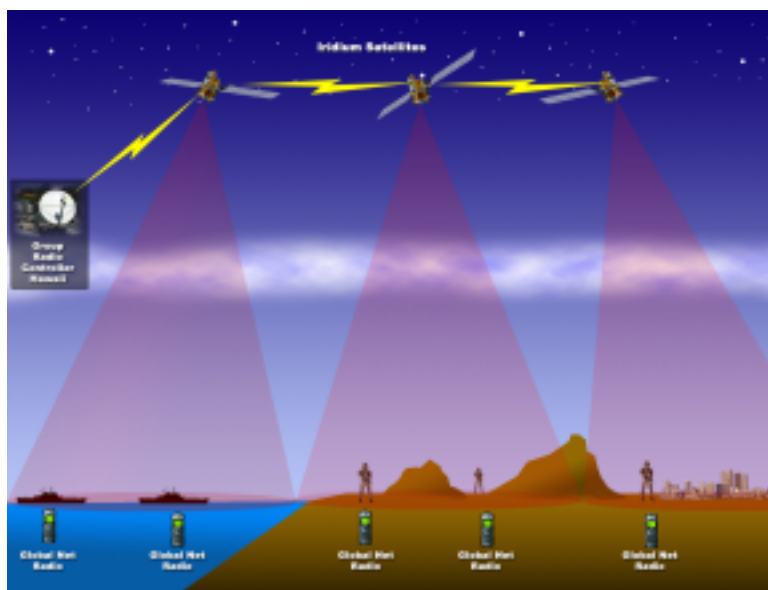
The purpose of the **Expeditionary Tactical Communications Systems (ETCS)** is to provide a voice and data, over-the-horizon, on-the-move communications to the mounted and dismounted tactical warfighter. ETCS will enable true Ship-to-Objective Maneuver (STOM) experimentation in SEA VIKING (SV) Advanced Warfighting Experiment (AWE).

Background: The Marine Corps Combat Development Command (MCCDC) identified the need for an over-the horizon (OTH) Tactical Communications capability to support Expeditionary Maneuver Warfare (EMW) that is not currently met by any other Program of Record. This requirement is to enable STOM at the tactical level over a 200 nautical mile area with minimum ground infrastructure. It must provide an assured on-the-move (OTM) capability to dismounted tactical maneuver units, fires and logistic assets operating in complex terrain. After review of the Universal Needs Statement #01802UA, Commanding General, MCCDC directed that the Marine Corps Warfighting Lab (MCWL) investigate capabilities for experimentation in SV AWE.

Description: Expeditionary Tactical Communications System is a modified version of the IRIDIUM system to provide netted (one-to-many) push-to-talk communications vice the current point-to-point dial-up capability. The system will be based upon a modified Motorola 9505 handset with an integrated Global Positioning System and a Group Radio Controller to manage the voice/data traffic and the individual nets. ETCS will be fitted aboard ship, in an OTM Combat Operations Center (COC), CH-53 and a Land Craft Air Cushioned (LCAC). It will integrate with current Marine Corps systems such as the Intelligence Operations Workstation (IOW) and Data Automated Communications Terminal (DACT) to provide extended netted communications over greater distances than the required 200 nautical miles, with-

EXPEDITIONARY TACTICAL COMMUNICATIONS SYSTEM

fact sheet



out ground infrastructure. In conjunction with MCWL's Command and Control Integration project, ETCS will support the distribution of the Common Tactical Database that includes Blue Position Location Information (PLI), throughout the whole area of expeditionary operations.

Deliverable Product(s): A system of 60 Global Net Radios integrated with Marine Corps systems such as IOW and DACT that will enable STOM experimentation. This experimentation will provide recommendations for the development and transition of an OTH/OTM communications capability to a future Marine Air Ground Task Force (MAGTF).

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